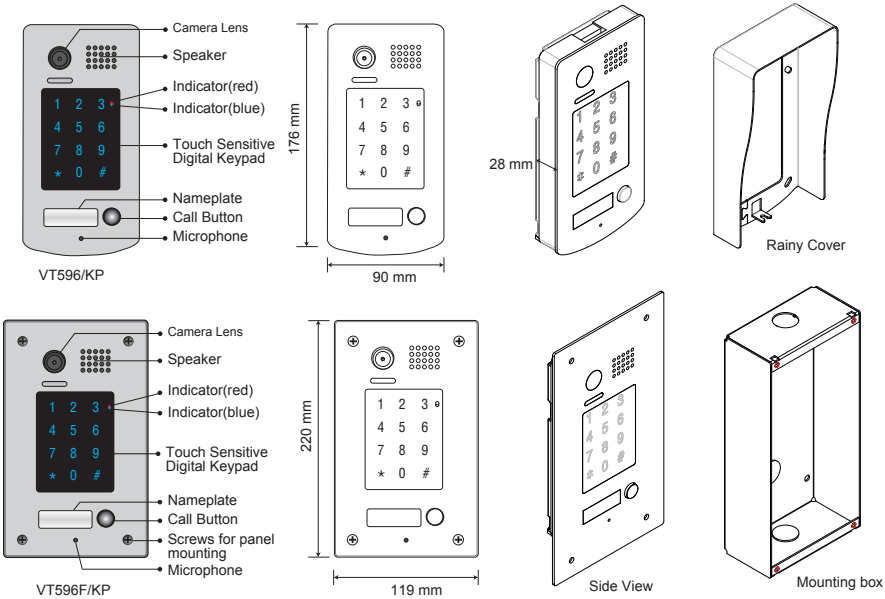
4 Wire Video Intercom System

VT596/KP

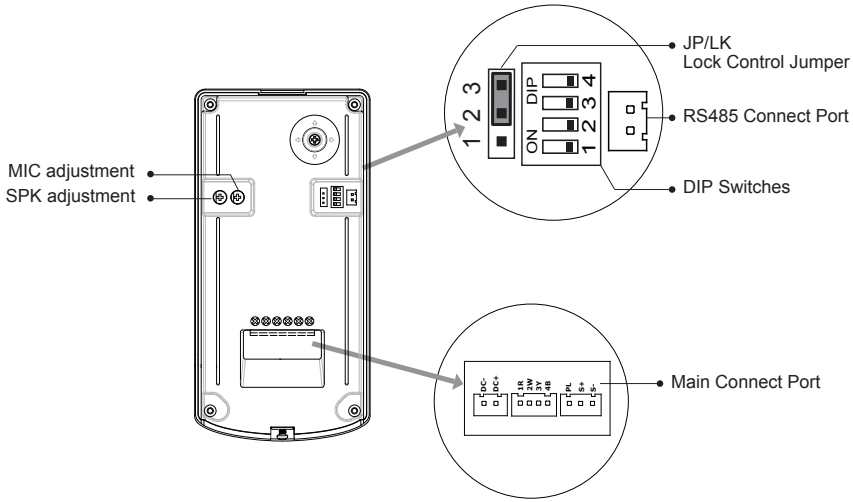
VT596F/KP

ⓘ Read this manual carefully before using the product, and keep it well for future use.

1. Parts and Functions



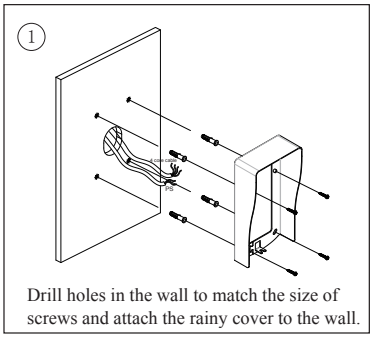
2. Terminal Descriptions

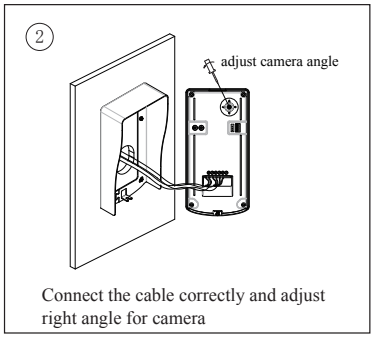


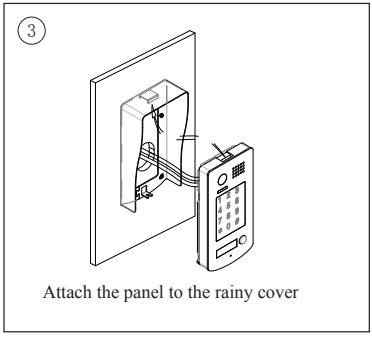
- **JP/LK(Lock Control Jumper):** To select the lock type: see section 4(lock connect)
- **DIP Switches:** Reserve.
- **RS485:**Used to update the program
- **MIC**: Adjust the volume of Microphone
- **SPK**: Adjust the volume of Speaker
- **Main Connect Port:** To connect the bus line and the electronic locks.
- DC+,DC-: Power supply connection port,16~24V, polarity.
- 1R: Power positive. +12V present when outdoor station calling or being monitored.
- 2W: Power negative (GND)
- 3Y: Image signal (Video signal)
- 4B: Talk and control signal (Audio signal)
- PL: External lock power input, connect to the power positive(power +).
- S+: Lock power(+) output.
- S-: Lock power(-) output.

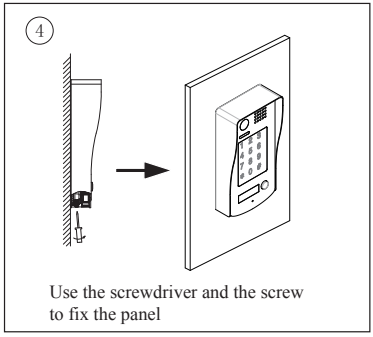
3. Door Station Mounting

VT596/KP Mounting

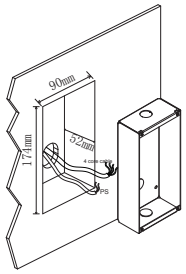




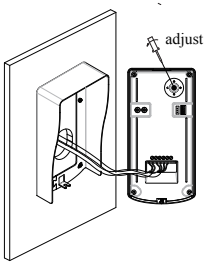




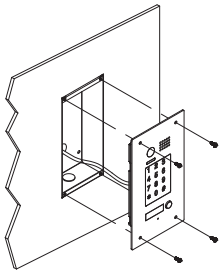
VT596F/KP Mounting

① 

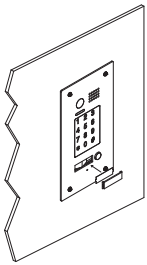
Drill a hole in the wall to match the size of the mounting box and attach to the wall.

② 

Connect the cable correctly and adjust right angle for camera

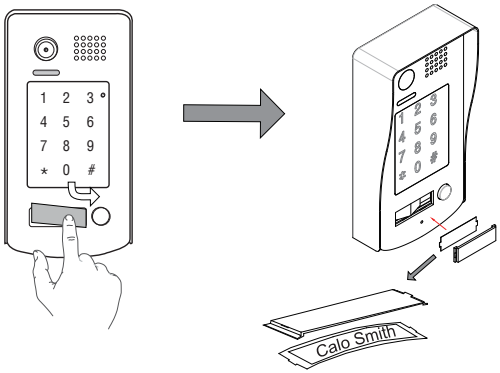
③ 

Attach the panel to the mounting box and use screws supplied to fix the panel

④ 

Place name label

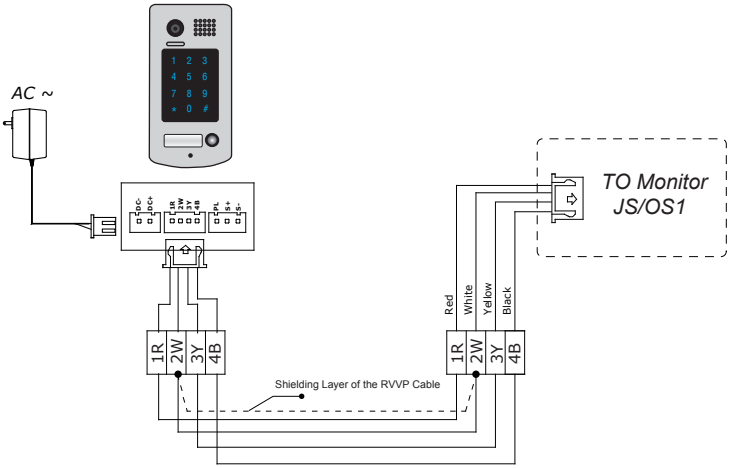
Placing Name Label



Press the plastic cover on right/left side to move away the cover, insert a name paper, then put the plastic cover back to the panel.

4. System Wiring and Electric Lock Connection

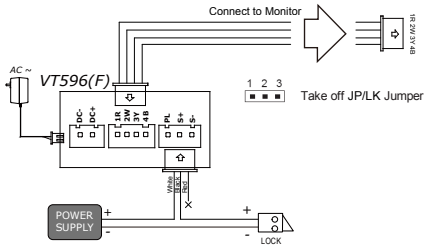
Basic Connection



Electric Lock Connection

- Mode1:Door Lock Controlled With Dry Contact

Must install external power supply for lock,and nearly all kinds of electronic lock can be used.Incidentally,in this mode,you can continue talking and monitoring during unlock operation.



Note:

1.The external power supply must be used according to the lock.

2.The inside relay contact is restricted to AC or DC 24V/1A.

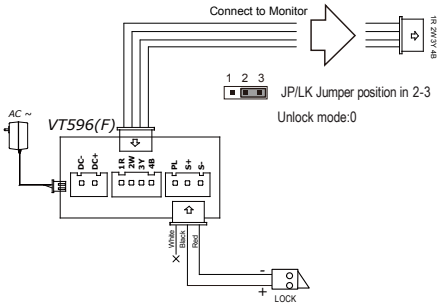
3.The jumper must be taken off before connecting.

4.Setup the Unlock Mode on door station for different lock types.

- Power-on-to-unlock type:Unlock Mode=0
- Power-off-to-unlock type:Unlock Mode=1

- Mode2:Door Lock Controlled With Internal Power

The lock can be directly connected with the door station and the power through monitor.During unlock operation,the monitor will close screen automatically.



Note:

1.Electronic lock of power-on-to-unlock shoule be used.

2.The door lock is limited to 12V,and holding current must be less than 250mA

3.The door lock control is not timed from Exit Button(EB).

4. The Unlock Mode Parameter of Monitor must be set to 0 (by default).

5. Functions Setting Up

This section explains the settings of each function,please refer to the following table:

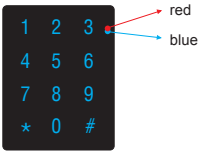
About the setting mode:

Input the master code to switch to the setting mode, and input the corresponding setting code to perform the settings for the function you want. After settings have been made, input the following setting codes to continue the setting operation. Press " * " to exit the setting mode.

- The example is set * as cancel button and # as confirm button,please refer to */# function setting for detail information.
- Forbid to slide to touch the digital keypad,it may cause mistaken key,the correct operation is using your finger to press the digital you desired.
- You should press“confirm”button after finish inputting the code number each time,otherwise,the operation will be canceled automatically in 10s.

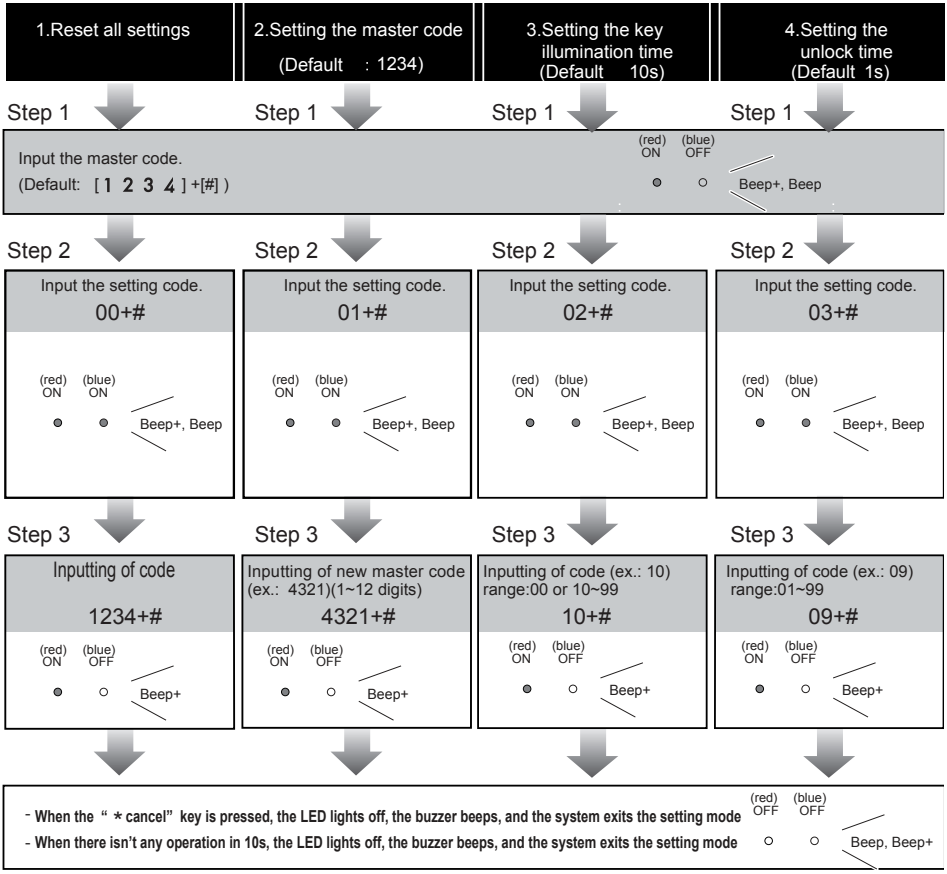
Order	Setting items	Setting range	Default value	Setting code
1	Reset all settings	1234	-	00
2	Setting the master code	1 ~ 12 digits Valid keys:0 ~ 9	1234	01
3	Setting the key illumination time	10 to 99 seconds/ continually lit(00s)	10 seconds	02
4	Setting the unlock time	01 to 99 seconds	1 seconds	03
5	Setting the unlock mode	0:opened/1:closed	opened	04
6	Operation tone settings	0:on/1:off	on	05
7	Reset code settings	1234	-	06
8	⁎&# function settings	0:Normal/1:Reverse	Normal	07
9	Reserve	Reserve	Reserve	08
10	Interference resistant grade settings	Valid keys:0 ~ 5	2	09
11	Reserve	Reserve	Reserve	10~17
12	Setting the code forTemporary1	1 ~ 12 digits Valid keys:0~9	-	18
13	Setting the code forTemporary2	1 ~ 12 digits Valid keys:0~9	-	19
14	Setting the code for user	1 ~ 12 digits Number of codes:80 Valid keys:0~9	-	20~99

About Functions Setting steps



Each operation is indicated by the lighting up of the LED indicators on the right section of the unit, and by the sounding of the buzzer.

Setting items



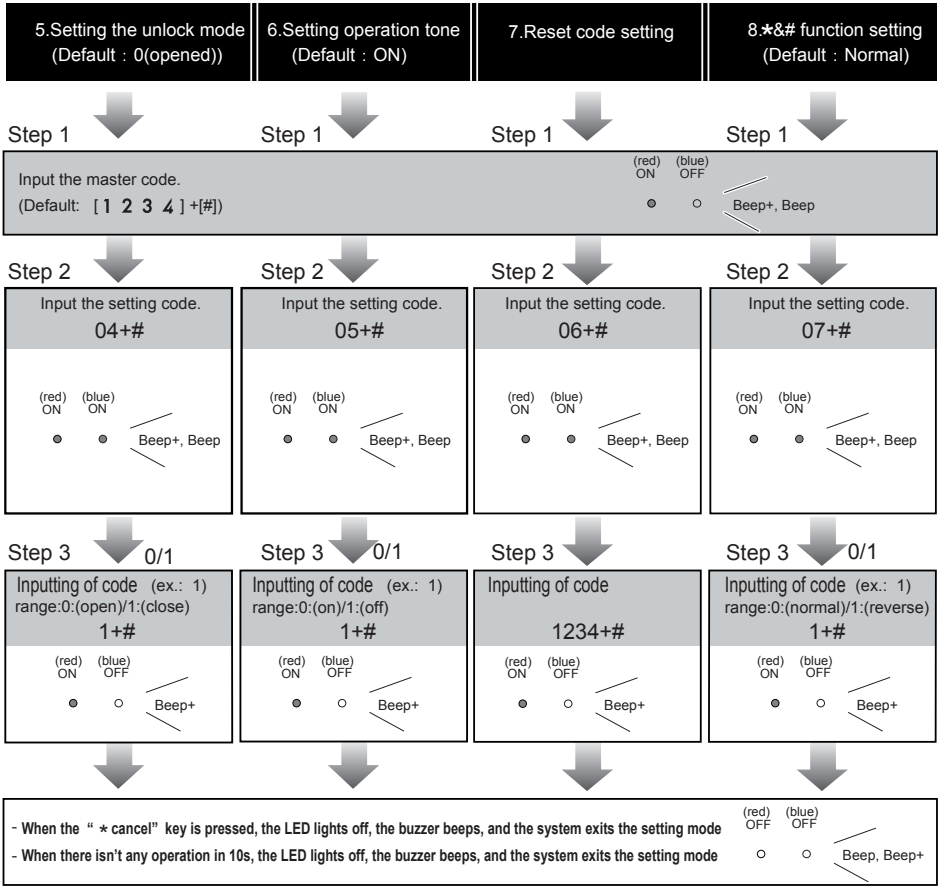
- All settings will restore to their default value.
- When power on or activate the reset all setting item,the keypad checking will carry out, during this time,the key illumination will blink and the touching operation is forbidden, after finish checking,the key illumination will stop blinking and sent out a long sound of beep

- The master code is allowed 1~12 digits,the same code cannot be set for both the user code and the master code,it is recommended that you modify the default master code.

- If the key illumination time is set to 00,the key illumination will light up all the time when power on.
- If the key illumination time is set to 10~99,the key illumination will light up for 10~99 seconds.At this mode, the key illumination lights off in standby mode, touching any digital key can illuminate,but this is the invalid digital.

- The unlock time is the time that use keypad access to unlock.

Setting items



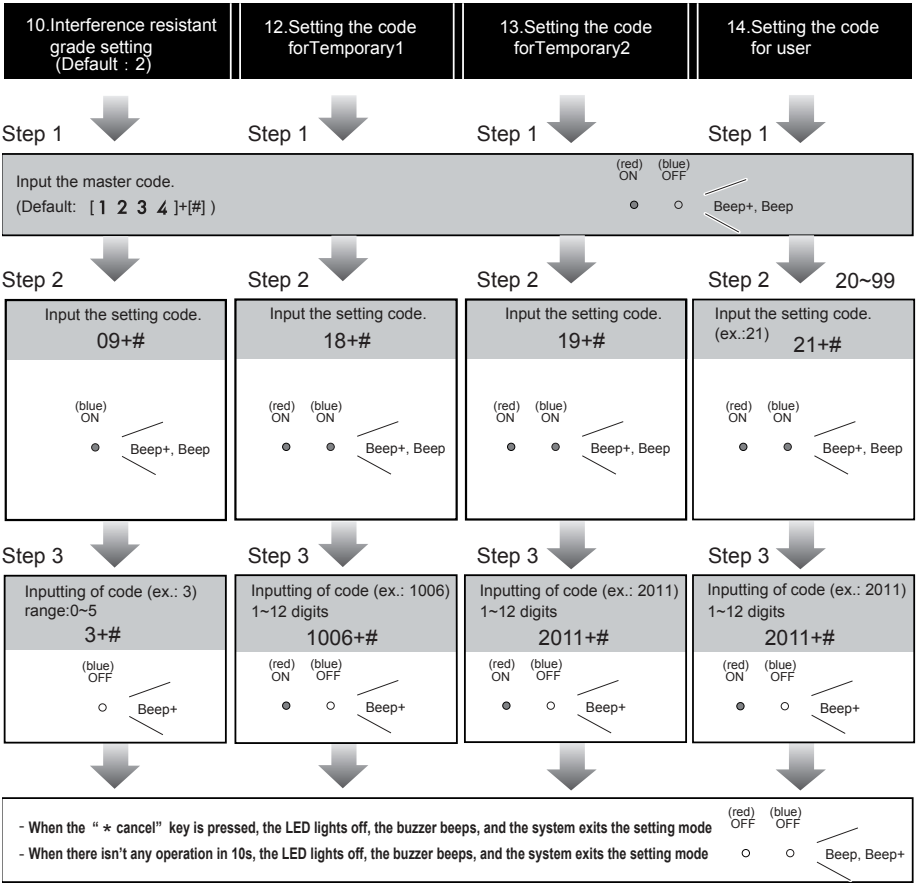
- The unlock mode is used to match the type of lock,If it's set to 0,unlock mode is power-on-to unlock,and must use electric lock. If it's set to 1,unlock mode is power-off-to-unlock,and must use electromagnetic lock.

- When the operation tone is set to 0,pressing the digital keypad will sent out a sound of beep.
- When the operation tone is set to 1,pressing the digital keypad will blink one time.

- Cancel all the passwords except the master code.
- Restore the master code to default value(1,2,3,4)

- When the item is set to 0,press the * button to cancel the input, and press the # button to confirm the input.
- When the item is set to 1,press the # button to cancel the input, and press the * button to confirm the input .

Setting items



The larger you set the interference esistant grade,the stronger it will be, ut the sensitivity of the keypad will e more lower.
The interference resistant grade etting also will activatethe keypad hecking.

- When input the correct temporary password to release the door, the system will clear the temporary password after 60 seconds automatically.But you should know that the password is valid within 60 seconds after inputing the correct temporary password
- If the password length exceeds 12 digits, the system will sent out the sound of "beep,beep,beep,beep",and the digitals you input before will be cleared at the same time.
- The temporary code can not be set the same as the master code and user code.

- The user code is used to release the lock,80 group passwords can be supported.
- If the password length exceeds 12 digits, the system will sent out the sound of "beep,beep,beep,beep", and the digitals you input before will be cleared at the same time.
- The user code can not be set the same as the master code and temporary code.

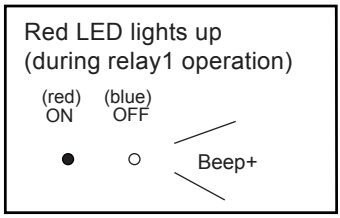
6. Unlock Operations

Unlocking of user code

When the registered user code has been input using the keypad (1~12 digits), the LED indicator (red) lights up, the buzzer sounds,and the electric door strike is unlocked.(note that you should press "#" button(if "#" button is set to confirm button) after input the unlock code)

Example:

Unlock code=2011



- The time interval during which the button must be pressed is approximately 10 seconds. If the time interval exceeds approximately 10 seconds, the input value will be cleared.
- If you make a mistake when inputting the user code,press the" cancel" button and input the user code again.
- If 10 times incorrect access codes are continuously attempted, the release function is forbidden and the input operation is disabled for 60 seconds . During this time,the buzzer will continuously sound about 8 times.
- You can activate the electric door strike by pressing the request to exit button connected to the unit. (The unlock function will work when the request to exit button is pushed, even while the keypad operating is forbidden.)

1. During calling,pressing "cancel" button can cancel the calling
2. If input the incorrect access code,the buzzer will sound of beep,beep,beep

7. Precaustions

- Please clean the unit with soft cotton cloth, don't use the organic impregnant or chemical clean agent. If necessary, please use a little pure water or dilute soap water to clean the dust.
- The unit is weather resistant. However do not spray high pressure water on access control keypad directly. Excessive moisture may cause problems with the unit.
- You must use the right adaptor which is supplied by the manufacture or approved by the manufacture..
- Pay attention to the high voltage inside the products, please refer service only to a trained and qualified professional.

8. Specifications

• Power Supply :	DC 16~20V
• Power Consumption:	Standby 0.5W; Working status 3W;
• Camera:	Pinhole Sharp Color CCD;
• Unlocking time:	1~99s
• Lock Power supply:	12Vdc, 300mA(Internal Power);
• Mounting:	Surface mounting(DT596/KP) Flush mounting (DT596F/KP)
• Working temperature:	-10ºC ~ +45ºC
• Dimension:	176(H)×90(W)×28(D)mm(DT596/KP) 220(H)×119(W)×52(D)mm(DT596F/KP)

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